

# Information Technology and Education, A Look into the Classroom of the Future



Paul Flanagan

[flanagan@ndu.edu](mailto:flanagan@ndu.edu)

Monday, April 26, 2010

*"The global hub for educating, informing, and connecting Information Age leaders."*



Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE <b>26 APR 2010</b>		2. REPORT TYPE		3. DATES COVERED <b>00-00-2010 to 00-00-2010</b>	
4. TITLE AND SUBTITLE <b>Information Technology and Education, A Look into the Classroom of the Future</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>National Defense University, Information Resources Management College, 300 5th Avenue, Fort McNair, Washington, DC, 20319-5066</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release; distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>Presented at the 22nd Systems and Software Technology Conference (SSTC), 26-29 April 2010, Salt Lake City, UT.</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>Same as Report (SAR)</b>	18. NUMBER OF PAGES <b>9</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			

# Let's look at a classroom of today:

- Chairs,
- Tables,
- Blackboards or White Boards.
- How much technology?
  - banning notebook computers!
- Comments?

# Three technologies in my classroom:

- **E-books,**
- **Radio Frequency “Clickers,”**
- **Software-as-a-Service**
  - Collaborative decision making software.

# E-books :

## ➤ Kindle DX

- All required readings loaded,
  - Students report reading more,
  - Highlight text for discussion.
- 
- Future courses
    - Will have PowerPoint slides
    - In PDF format,
    - Audio files.



# Radio Frequency Clickers :

Turning Technology's clickers:

Used in four different courses at the iCollege:  
increases interactivity in the classroom,  
improved learning demonstrated by superior test  
scores.



## ➤ **Software-as-a-Service**

- Collaborative decision making software,
- Requirements: Internet access, browser, user-id and passwords.
- Use popular screen capture tools to send video with information on how to log-in.
- Use conference call for sound.
- Solve problems in groups, discuss solutions on-line or via e-mail.

## ➤ Next Steps:

- Classrooms built to use information technologies,
- Easy to use technology,
  - Instructors and students can focus on the topic,
  - Use technologies students already use,
  - Virtual worlds technology.
- Collect data demonstrating successful outcomes.
- Electronic footlockers
  - place to store digital data used in the classroom
  - Accessible via the Internet.
- Student centric learning!



## ➤ Questions?

## ➤ Professor Paul Flanagan

- [flanagan@ndu.edu](mailto:flanagan@ndu.edu)
- 202.685.2059

***“The global hub for educating, informing, and connecting Information Age leaders.”***

